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L2 24 SEA FILE=HCAPLUS ("VIND JESPER"/AU OR "VIND JESPER"/IN)
L3 146062 SEA FILE=HCAPLUS FUNG? OR POLYNUCLEOTIDE?
L4 14 SEA FILE=HCAPLUS L2 AND L3

=> d ibib abs hitrn l4 1-14

L4 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2001:50780 HCAPLUS
TITLE: Glucoamylase variant
INVENTOR(S): Nielsen, Bjarne Ronfeldt; Svendsen, Allan; Pedersen, Henrik; **Vind, Jesper**; Hendriksen, Hanne Vang; Frandsen, Torben Peter
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001004273	A2	20010118	WO 2000-DK373	20000707

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DK 1999-999 19990709

AB The invention relates to a variant of a parent **fungal** glucoamylase, which exhibits altered properties, in particular improved thermal stability and/or increased specific activity.

L4 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:608878 HCAPLUS
DOCUMENT NUMBER: 133:188889
TITLE: **Fungal** cells with inactivated DNA mismatch repair system and their use as cloning and expression hosts
INVENTOR(S): Borchert, Torben Vedel; Christiansen, Lars; **Vind, Jesper**
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050567	A1	20000831	WO 2000-DK63	20000217

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DK 1999-253 19990224

AB A process for making DNA libraries in filamentous **fungal** cells using a novel cloned gene involved in the mismatch repair system of filamentous **fungal** cells is described. By suppressing mismatch repair, the loss of sequence diversity is prevented. An electrophoretic mobility shift assay for mismatch repair activity is described. A mismatch repair gene, msh2, of Aspergillus oryzae was cloned using PCR with primers derived from conserved sequences of other mismatch repair genes to generate a probe is described. Methods of inactivating the endogenous msh2 gene and the development of vectors using it are also described.

REFERENCE COUNT: 5
REFERENCE(S): (1) Huber, D; Database SWISS-PROT 1998
(2) Maxygen Inc; WO 9831837 A1 1998 HCAPLUS

(3) Setratech; WO 9007576 A1 1990 HCAPLUS
(4) Setratech; WO 9705268 A1 1997 HCAPLUS
(5) Setratech S A R L; WO 9737011 A1 1997 HCAPLUS

L4 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:401977 HCAPLUS
DOCUMENT NUMBER: 133:39882
TITLE: Glucoamylases with N-terminal extensions displaying improved thermostability and their uses
INVENTOR(S): Nielsen, Bjarne Ronfeldt; Svendsen, Allan; Bojsen, Kirsten; **Vind, Jesper**; Pedersen, Henrik
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034452	A1	20000615	WO 1999-DK686	19991207

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DK 1998-1616 19981207
DK 1999-409 19990324

AB The invention relates to **fungal** glucoamylase with N-terminal extensions which exhibit improved thermal stability. Thus, N-terminal extended Aspergillus niger glucoamylase G2 variants were prepd. and their enhanced thermostability demonstrated.

REFERENCE COUNT: 4
REFERENCE(S):
(1) Cetus Corporation; WO 8402921 A3 1984 HCAPLUS
(2) Institut Fur Pflanzengenetik und Kulturpflanzenforschung; DE 4425058 A1 1996 HCAPLUS
(3) National Research Council of Canada; EP 0828002 A2 1998 HCAPLUS
(4) Novo Nordisk A/S; WO 9704078 1997 HCAPLUS

L4 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:384391 HCAPLUS
DOCUMENT NUMBER: 133:39878
TITLE: Lipase variants for use in baking or detergents and method for preparing lipase variants
INVENTOR(S): Bojsen, Kirsten; Svendsen, Allan; Fuglsang, Klaus Crone; Shamkant, Anant Patkar; Borch, Kim; **Vind, Jesper**; Petri, Andreas; Glad, Sanne Schroder; Budolfsen, Gitte
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000032758	A1	20000608	WO 1999-DK664	19991129

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

DK 1998-1572	19981127
US 1998-111430	19981208
DK 1999-391	19990322
US 1999-126914	19990329
DK 1999-1481	19991015
US 1999-160735	19991022

AB The substrate specificity of a lipolytic enzyme can be modified by making alterations to the amino acid sequence in a defined region of the lipolytic enzyme, so as to increase the level of a desired activity or to decrease the level of an undesired activity. Thus, the inventors have developed lipolytic enzyme variants with a modified amino acid sequence with a substrate specificity which can be tailored for specific uses. Thus, many variants of Humicola lanuginosa and of Fusarium oxysporum lipases were prepd. with recombinant Saccharomyces cerevisiae. Variants were prepd. which had phospholipase activity, which had increased specificity for long-chain or for short-chain fatty acids, which had hydrolytic activity towards digalactosyldiglyceride, and which had increased or decreased pH optima. Use of some of the variants in vegetable oil degumming and in baking was demonstrated.

REFERENCE COUNT: 10
REFERENCE(S):
(1) Anon; WO 9205249 HCAPLUS
(2) Anon; WO 9401541 HCAPLUS
(3) Atomi; Proc World Congr Int Soc Fat Res 1996, V1, P49 HCAPLUS
(5) Bachmatova, I; Biologija 1995, 1-2, P57 HCAPLUS
(8) Novo Nordisk AS; WO 9205249 A1 1992 HCAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:383958 HCAPLUS
DOCUMENT NUMBER: 133:34291
TITLE: Anti-dandruff composition comprising an antifungal polypeptide
INVENTOR(S): **Vind, Jesper**; Sorensen, Niels Henrik
PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000032220	A1	20000608	WO 1999-DK659	19991126

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DK 1998-1579 19981130

AB The present invention relates to an anti-dandruff compn. comprising an antifungal polypeptide, to the use of an antifungal polypeptide for the treatment or prophylaxis of dandruff, to a method for the treatment or prophylaxis of dandruff, and to the use of an antifungal polypeptide for the prepn. of a compn. for the treatment or prophylaxis of dandruff. The antifungal polypeptide, a 51 amino acid-contg. peptide, obtained from Aspergillus species, efficiently impedes the growth of the yeast P. ovale , even in low concns. Shampoo compns. contg. the peptide are given.

REFERENCE COUNT: 2
REFERENCE(S): (1) Beiersdorf Ag; WO 9722624 A2 1997 HCAPLUS
(2) Novo Nordisk AS; WO 9401459 A1 1994 HCAPLUS

L4 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:291226 HCAPLUS
DOCUMENT NUMBER: 132:319501
TITLE: Methods of constructing and screening a DNA library of interest in filamentous **fungal** cells
INVENTOR(S): **Vind, Jesper**
PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000024883	A1	20000504	WO 1999-DK552	19991013

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9961885 A1 20000515 AU 1999-61885 19991013
PRIORITY APPLN. INFO.: DK 1998-1375 19981026
DK 1999-718 19990525
WO 1999-DK552 19991013

AB The invention provides a method of constructing and screening a library of **polynucleotide** sequences of interest in filamentous **fungal** cells by use of an episomal replicating AMA1-based plasmid vector, thus achieving a high frequency of transformation and a stable and std. uniformly high level of gene expression.

REFERENCE COUNT: 4
REFERENCE(S):
(1) Aleksenko, A; Fungal Genetics and Biology 1997, V21, P373 HCAPLUS
(2) Aleksenko, A; Mol Gen Genet 1996, V253, P242 HCAPLUS
(3) Alexei, A; Molecular Microbiology 1996, V20(2), P427
(4) Gems, D; Curr Genet 1993, V24, P520 HCAPLUS

L4 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:68546 HCAPLUS
DOCUMENT NUMBER: 132:104698
TITLE: Glucoamylase variants with improved specific activity and/or thermostability
INVENTOR(S): Nielsen, Bjarne Ronfeldt; Svendsen, Allan; Pedersen, Henrik; **Vind, Jesper**; Hendriksen, Hanne Vang; Frandsen, Torben Peter
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000004136	A1	20000127	WO 1999-DK392	19990709
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9947699	A1	20000207	AU 1999-47699	19990709

PRIORITY APPLN. INFO.: DK 1998-937 19980715
DK 1998-1667 19981217
WO 1999-DK392 19990709

AB The invention relates to a variant of a parent **fungal** glucoamylase, which exhibits improved thermal stability and/or increased specific activity using saccharide substrates. The x-ray structure and/or model-build structure of Aspergillus awamori variant X100 glucoamylase was subjected to mol. dynamics simulations to identify regions important for temp.-stable activity. The truncated G1 glucoamylase from Aspergillus

niger was modified by (1) random mutagenesis, (2) localized random, doped mutagenesis, or (3) PCR shuffling spiked with DNA oligonucleotides in order to prep. variants having improved thermostability compared to the parent enzyme. Such glucoamylase variants have use in starch saccharification, oligosaccharide prodn., specialty syrups, producing ethanol for fuel, producing beverages, and producing org. compds. (citric acid, ascorbic acid, lysine, glutamic acid).

REFERENCE COUNT: 4
REFERENCE(S):
(1) Chen, H; Protein Eng (ENGLAND) 1995, V8(6), P575 HCAPLUS
(2) Fierobe, H; Biochemistry (UNITED STATES) 1996, V35(26), P8696 HCAPLUS
(3) Iowa State University Research Foundation Inc; WO 9803639 A1 1998 HCAPLUS
(4) Novo Nordisk AS; WO 9200381 A1 1992 HCAPLUS

L4 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:239286 HCAPLUS
DOCUMENT NUMBER: 131:16292
TITLE: Direct evolution of a **fungal** peroxidase
AUTHOR(S): Cherry, Joel R.; Lamsa, Michael H.; Schneider, Palle; **Vind, Jesper**; Svendsen, Allan; Jones, Aubrey; Pedersen, Anders H.
CORPORATE SOURCE: Novo Nordisk Biotech, Inc., Davis, CA, 95616, USA
SOURCE: Nat. Biotechnol. (1999), 17(4), 379-384
CODEN: NABIF9; ISSN: 1087-0156
PUBLISHER: Nature America
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The Coprinus cinereus (CiP) heme peroxidase was subjected to multiple rounds of directed evolution in an effort to product a mutant suitable for use as a dye transfer inhibitor in laundry detergent. THe wild-type peroxidase is rapidly inactivated under laundry conditions due to the high pH (10.5), high temp. (50.degree.C), and high peroxide concn. (5-10 mM). Peroxidase mutants were initially generated using two parallel approaches: site-directed mutagenesis based on structure-function considerations, and error-prone PCR to create random mutations. Mutations were expressed in Saccharomyces cerevisiae and screened for improve stability by measuring residual activity after incubation under conditions mimicking those in a washing machine. Manually combining mutations from the site-directed and random approaches led to a mutant with 110 times the thermal stability and 2.8 times the oxidative stability of wild-type CiP. In the final two rounds, mutants were randomly recombined by using the efficient yeast homologous recombination system to shuffle point mutations among a large no. of parents. This in vivo shuffling led to the most dramatic improvements in oxidative stability, yielding a mutant with 174 times the thermal stability and 100 times the oxidative stability of wild-type CiP.

REFERENCE COUNT: 19
REFERENCE(S):
(1) Abelskov, A; Biochemistry 1997, V36, P9453 HCAPLUS
(2) Cannon, J; Molec Cell Biol 1987, V7, P2653 HCAPLUS
(3) Crameri, A; Nature 1998, V391, P288 HCAPLUS
(5) Kunishima, N; J Mol Biol 1994, V235, P331 HCAPLUS
(6) Landt, O; Gene 1990, V96, P125 HCAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:640366 HCAPLUS
DOCUMENT NUMBER: 129:255993
TITLE: An in vitro primer extension method for construction of a DNA library of overlapping sequences
INVENTOR(S): **Vind, Jesper**
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9841653	A1	19980924	WO 1998-DK104	19980318
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9866115	A1	19981012	AU 1998-66115	19980318
EP 973940	A1	20000126	EP 1998-907911	19980318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
BR 9808368	A	20000523	BR 1998-8368	19980318
US 6159687	A	20001212	US 1998-40697	19980318
PRIORITY APPLN. INFO.:			DK 1997-307	19970318
			DK 1997-434	19970417
			DK 1997-625	19970530
			US 1997-44836	19970425
			US 1997-53012	19970624
			WO 1998-DK104	19980318

AB A method of constructing libraries of overlapping sequences using rounds of primer extension to is described. A first round of primer extension is used to generate extended primers that are sepd. from the template DNA. The template is then shifted by using the extended primers as both primers and templates or by repeating the first stage of the process. The process is then repeated as often as necessary to obtain the desired bank. Optionally the **polynucleotides** are amplified in a a std. PCR reaction with specific primers to selectively amplify homologous **polynucleotides** of interest. The method is particularly intended to obtain sequences encoding specific domains of proteins for use in protein engineering by domain shuffling. Error-prone amplification can be used to generate pools of variants. The use of the method on pools of Humicola lanuginosa lipase variants to generate new variants is demonstrated.

L4 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:240584 HCAPLUS
DOCUMENT NUMBER: 126:222277
TITLE: Recombinant lipases with C- and/or N-terminal extensions and their use in detergents
INVENTOR(S): Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen,

Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; **Vind, Jesper**; Halkier, Torben; Joergensen, Steen Troels; et al.

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben

SOURCE: PCT Int. Appl., 191 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9704079	A1	19970206	WO 1996-DK322	19960712
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9664141	A1	19970218	AU 1996-64141	19960712
EP 839186	A1	19980506	EP 1996-923878	19960712
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
CN 1193346	A	19980916	CN 1996-196371	19960712

PRIORITY APPLN. INFO.:

DK 1995-832	19950714
DK 1995-1013	19950913
DK 1995-1096	19950929
DK 1995-1306	19951121
US 1996-11634	19960214
DK 1996-372	19960401
US 1996-20461	19960507
WO 1996-DK322	19960712

AB The invention relates to a modified enzyme with lipolytic activity recovered from a filamentous **fungi** or a bacteria having one or more peptide addns. at the N-terminal and/or the C-terminal ends in comparison to the parent enzyme. The peptide addns. significantly improve the washing performance of the lipase. Further, the invention relates to a DNA sequence encoding said modified enzyme, a vector comprising said DNA sequence, a host cell harboring said DNA sequence or said vector, and a process for producing said modified enzyme with lipolytic activity. The lipase variants are useful in detergent compns. Numerous lipase variants contg. substitution mutations and C- and/or N-terminal addns. were prepd. with recombinant Aspergillus oryzae or with Escherichia coli. The addn. of SPIRR to the N-terminus of Humicola lanuginosa lipase increased the wash performance relative to the parent enzyme twofold.

L4 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:220628 HCAPLUS
DOCUMENT NUMBER: 126:208956
TITLE: Recombinant lipases with C- and/or N-terminal extensions and their use in detergents
INVENTOR(S): Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen,

Marianne; **Vind, Jesper**; Halkier, Torben; Joergensen, Steen Troels; et al.
PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben
SOURCE: PCT Int. Appl., 197 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9704078	A1	19970206	WO 1996-DK321	19960712
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9664140	A1	19970218	AU 1996-64140	19960712
CN 1193346	A	19980916	CN 1996-196371	19960712
PRIORITY APPLN. INFO.:			DK 1995-832	19950714
			DK 1995-1013	19950913
			DK 1995-1096	19950929
			DK 1995-1306	19951121
			US 1996-11634	19960214
			DK 1996-372	19960401
			US 1996-20461	19960507
			US 1996-20416	19960507
			WO 1996-DK321	19960712

AB The invention relates to a modified enzyme with lipolytic activity recovered from a filamentous **fungi** or a bacteria having one or more peptide addns. at the N-terminal and/or the C-terminal ends in comparison to the parent enzyme. The peptide addns. significantly improve the washing performance of the lipase. Further, the invention relates to a DNA sequence encoding said modified enzyme, a vector comprising said DNA sequence, a host cell harboring said DNA sequence or said vector, and a process for producing said modified enzyme with lipolytic activity. The lipase variants are useful in detergent compns. Numerous lipase variants contg. substitution mutations and C- and/or N-terminal addns. were prepd. with recombinant Aspergillus oryzae or with Escherichia coli. The addn. of SPIRR to the N-terminus of Humicola lanuginosa lipase increased the wash performance relative to the parent enzyme twofold.

L4 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:400053 HCAPLUS
DOCUMENT NUMBER: 122:181667
TITLE: Disulfide bonds and glycosylation in **fungal** peroxidases
AUTHOR(S): Limongi, Paola; Kjalke, Marianne; **Vind, Jesper**; Tams, Jeppe W.; Johansson, Tomas; Welinder, Karen G.
CORPORATE SOURCE: Department of Protein Chemistry, Univ. of Copenhagen, Copenhagen, DK-1353, Den.

SOURCE: Eur. J. Biochem. (1995), 227(1/2), 270-6
CODEN: EJBCAI; ISSN: 0014-2956
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Four conserved disulfide bonds and N-linked and O-linked glycans of extracellular **fungal** peroxidases have been identified from studies of a lignin and a manganese peroxidase from Trametes versicolor, and from Coprinus cinereus peroxidase (CIP) and recombinant C. cinereus peroxidase (rCIP) expressed in Aspergillus oryzae. The eight cysteine residues are linked 1-3, 2-7, 4-5 and 6-8, and are located differently from the four conserved disulfide bridges present in the homologous plant peroxidases. CIP and rCIP were identical in their glycosylation pattern, although the extent of glycan chain heterogeneity depended on the fermn. batch. CIP and rCIP have one N-linked glycan composed only of GlcNAc and Man at residue Asn142, and two O-linked glycans near the C-terminus. The major glycoform consists of single Man residues at Thr331 and at Ser338. T. versicolor lignin isoperoxidase TvLP10 contains a single N-linked glycan composed of (GlcNAc)2Man5 bound to Asn103, whereas (GlcNAc)2Man3 was found in T. versicolor manganese isoperoxidase TvMP2 at the same position. In addn., mass spectrometry of the C-terminal peptide of TvMP2 indicated the presence of five Man residues in O-linked glycans. No phosphate was found in these **fungal** peroxidases.

L4 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:50558 HCAPLUS
DOCUMENT NUMBER: 122:48019
TITLE: Expression cloning, purification and characterization of a .beta.-1,4-mannanase from Aspergillus aculeatus
AUTHOR(S): Christgau, Stephan; Kauppinen, Sakari; **Vind, Jesper**; Kofod, Lene V.; Dalboege, Henrik
CORPORATE SOURCE: GeneExpress, Novo Nordisk A/S, Copenhagen, DK-2100, Den.
SOURCE: Biochem. Mol. Biol. Int. (1994), 33(5), 917-25
CODEN: BMBIES
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A cDNA library from the filamentous **fungus** A. aculeatus was constructed in the yeast expression vector pYES2.0 and used to isolate 57 full length cDNAs encoding endo-.beta.-1,4-mannanase (I) by expression in S. cerevisiae. The pos. clones were identified on agar plates contg. 0.2% azurine-dyed crosslinked mannan by the formation of blue halos around the colonies. All clones represented transcripts of the same I gene (man1). The gene was subcloned into an Aspergillus expression vector and transformed into A. oryzae for overexpression and purifn. of the enzyme. Recombinant I had a mol. wt. of 45 kDa, a pI of 4.5, a pH optimum of pH 5.0, and a temp. optimum of 60-70.degree..

L4 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:453072 HCAPLUS
DOCUMENT NUMBER: 121:53072
TITLE: NMR studies of recombinant Coprinus peroxidase and three site-directed mutants. Implications for peroxidase substrate binding
AUTHOR(S): Veitch, Nigel C.; Tams, Jeppe W.; **Vind, Jesper**; Dalboege, Henrik; Welinder, Karen G.
CORPORATE SOURCE: Jodrell Lab., R. Bot. Gardens, Richmond, UK

SOURCE: Eur. J. Biochem. (1994), 222(3), 909-18
CODEN: EJBCAI; ISSN: 0014-2956
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Proton NMR spectroscopy has been used to characterize and compare wild-type **fungal** and recombinant Coprinus cinereus peroxidase (CIP) and three mutants in which Gly156 and/or Asn157 was replaced by Phe. Anal. of one- and two-dimensional NMR spectra of recombinant CIP was undertaken for comparison with the **fungal** enzyme and in order to est. a meaningful basis for soln. studies of CIP mutants. Proton resonance assignments of heme and heme-linked residues obtained for the cyanide-ligated form of recombinant CIP revealed a high degree of spectral similarity with those of lignin and manganese-dependent peroxidases and extend previously reported NMR data for **fungal** CIP. The three mutants examd. by NMR spectroscopy comprised site-specific substitutions made to a region of the structure believed to form part of the peroxidase heme group access channel for substrate and ligand mols. Proton resonances of the arom. side-chains of Phe156 and Phe157 were found to have similar spectral characteristics to those of two phenylalanine residues known to be involved in the binding of arom. donor mols. to the plant peroxidase, horseradish peroxidase isoenzyme C. The results are discussed in the context of complementary reactivity studies on the mutants in order to develop a more detailed understanding of arom. donor mol. binding to **fungal** and plant peroxidases.

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI DK 1999-999 19990709

L3 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:608878 HCAPLUS
DN 133:188889
TI **Fungal** cells with inactivated DNA mismatch repair system and their use as cloning and expression hosts
IN Borchert, Torben Vedel; Christiansen, Lars; **Vind, Jesper**
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000050567	A1	20000831	WO 2000-DK63	20000217

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI DK 1999-253 19990224
RE.CNT 5
RE
(1) Huber, D; Database SWISS-PROT 1998
(2) Maxygen Inc; WO 9831837 A1 1998 HCAPLUS
(3) Setratech; WO 9007576 A1 1990 HCAPLUS
(4) Setratech; WO 9705268 A1 1997 HCAPLUS
(5) Setratech S A R L; WO 9737011 A1 1997 HCAPLUS

L3 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:401977 HCAPLUS
DN 133:39882
TI Glucoamylases with N-terminal extensions displaying improved thermostability and their uses
IN Nielsen, Bjarne Ronfeldt; Svendsen, Allan; Bojsen, Kirsten; **Vind, Jesper**; Pedersen, Henrik
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000034452	A1	20000615	WO 1999-DK686	19991207

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,

IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI DK 1998-1616 19981207
DK 1999-409 19990324
RE.CNT 4
RE
(1) Cetus Corporation; WO 8402921 A3 1984 HCAPLUS
(2) Institut Fur Pflanzengenetik und Kulturpflanzenforschung; DE 4425058 A1 1996 HCAPLUS
(3) National Research Council of Canada; EP 0828002 A2 1998 HCAPLUS
(4) Novo Nordisk A/S; WO 9704078 1997 HCAPLUS

L3 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:384391 HCAPLUS
DN 133:39878
TI Lipase variants for use in baking or detergents and method for preparing lipase variants
IN Bojsen, Kirsten; Svendsen, Allan; Fuglsang, Klaus Crone; Shamkant, Anant Patkar; Borch, Kim; **Vind, Jesper**; Petri, Andreas; Glad, Sanne Schroder; Budolfsen, Gitte
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000032758	A1	20000608	WO 1999-DK664	19991129

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI DK 1998-1572 19981127
US 1998-111430 19981208
DK 1999-391 19990322
US 1999-126914 19990329
DK 1999-1481 19991015
US 1999-160735 19991022
RE.CNT 10
RE
(1) Anon; WO 9205249 HCAPLUS
(2) Anon; WO 9401541 HCAPLUS
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(8) Novo Nordisk AS; WO 9205249 A1 1992 HCAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:383958 HCAPLUS
DN 133:34291
TI Anti-dandruff composition comprising an antifungal polypeptide
IN **Vind, Jesper**; Sorensen, Niels Henrik
PA Novo Nordisk A/s, Den.
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000032220	A1	20000608	WO 1999-DK659	19991126

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI DK 1998-1579 19981130
RE.CNT 2
RE
(1) Beiersdorf Ag; WO 9722624 A2 1997 HCAPLUS
(2) Novo Nordisk AS; WO 9401459 A1 1994 HCAPLUS

L3 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:291226 HCAPLUS
DN 132:319501
TI Methods of constructing and screening a DNA library of interest in filamentous **fungal** cells
IN **Vind, Jesper**
PA Novo Nordisk A/s, Den.
SO PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000024883	A1	20000504	WO 1999-DK552	19991013

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	AU 9961885	A1	20000515	AU 1999-61885	19991013

PRAI DK 1998-1375 19981026
DK 1999-718 19990525
WO 1999-DK552 19991013
RE.CNT 4
RE
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(3) Alexei, A; Molecular Microbiology 1996, V20(2), P427
(4) Gems, D; Curr Genet 1993, V24, P520 HCAPLUS

L3 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 2000:68546 HCAPLUS
DN 132:104698
TI Glucoamylase variants with improved specific activity and/or thermostability
IN Nielsen, Bjarne Ronfeldt; Svendsen, Allan; Pedersen, Henrik; **Vind, Jesper**; Hendriksen, Hanne Vang; Frandsen, Torben Peter
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000004136	A1	20000127	WO 1999-DK392	19990709
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9947699	A1	20000207	AU 1999-47699	19990709

PRAI DK 1998-937 19980715
DK 1998-1667 19981217
WO 1999-DK392 19990709
RE.CNT 4
RE
(1) Chen, H; Protein Eng (ENGLAND) 1995, V8(6), P575 HCAPLUS
(2) Fierobe, H; Biochemistry (UNITED STATES) 1996, V35(26), P8696 HCAPLUS
(3) Iowa State University Research Foundation Inc; WO 9803639 A1 1998 HCAPLUS
(4) Novo Nordisk AS; WO 9200381 A1 1992 HCAPLUS

L3 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 1999:239286 HCAPLUS
DN 131:16292
TI Direct evolution of a **fungal** peroxidase
AU Cherry, Joel R.; Lamsa, Michael H.; Schneider, Palle; **Vind, Jesper**; Svendsen, Allan; Jones, Aubrey; Pedersen, Anders H.
CS Novo Nordisk Biotech, Inc., Davis, CA, 95616, USA
SO Nat. Biotechnol. (1999), 17(4), 379-384
CODEN: NABIF9; ISSN: 1087-0156
PB Nature America

DT Journal
LA English
RE.CNT 19
RE
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(3) Crameri, A; Nature 1998, V391, P288 HCAPLUS
(5) Kunishima, N; J Mol Biol 1994, V235, P331 HCAPLUS
(6) Landt, O; Gene 1990, V96, P125 HCAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 1998:640366 HCAPLUS
DN 129:255993
TI An in vitro primer extension method for construction of a DNA library of overlapping sequences
IN **Vind, Jesper**
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9841653	A1	19980924	WO 1998-DK104	19980318
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9866115	A1	19981012	AU 1998-66115	19980318
	EP 973940	A1	20000126	EP 1998-907911	19980318
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	BR 9808368	A	20000523	BR 1998-8368	19980318
	US 6159687	A	20001212	US 1998-40697	19980318
PRAI	DK 1997-307	19970318			
	DK 1997-434	19970417			
	DK 1997-625	19970530			
	US 1997-44836	19970425			
	US 1997-53012	19970624			
	WO 1998-DK104	19980318			

L3 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 1997:240584 HCAPLUS
DN 126:222277
TI Recombinant lipases with C- and/or N-terminal extensions and their use in detergents
IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; **Vind, Jesper**; Halkier, Torben; Joergensen, Steen Troels; et al.
PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Petersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind,

Jesper; Halkier, Torben
SO PCT Int. Appl., 191 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9704079	A1	19970206	WO 1996-DK322	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9664141	A1	19970218	AU 1996-64141	19960712
	EP 839186	A1	19980506	EP 1996-923878	19960712
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1193346	A	19980916	CN 1996-196371	19960712

PRAI DK 1995-832 19950714
DK 1995-1013 19950913
DK 1995-1096 19950929
DK 1995-1306 19951121
US 1996-11634 19960214
DK 1996-372 19960401
US 1996-20461 19960507
WO 1996-DK322 19960712

L3 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2001 ACS
AN 1997:220628 HCAPLUS
DN 126:208956
TI Recombinant lipases with C- and/or N-terminal extensions and their use in detergents
IN Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; **Vind, Jesper**; Halkier, Torben; Joergensen, Steen Troels; et al.
PA Novo Nordisk A/s, Den.; Fuglsang, Claus Crone; Okkels, Jens Sigurd; Pertersen, Dorte Aaby; Patkar, Shamkant Anant; Thellersen, Marianne; Vind, Jesper; Halkier, Torben
SO PCT Int. Appl., 197 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9704078	A1	19970206	WO 1996-DK321	19960712
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9664140	A1	19970218	AU 1996-64140	19960712
	CN 1193346	A	19980916	CN 1996-196371	19960712

PRAI DK 1995-832 19950714

	DK 1995-1013	19950913
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